

WHAT IS CLAIMED IS:

1. An automatic slide feeder, comprising:

a housing defining an input slide tray, an output slide tray and a scan slide tray;

5 a slide actuator operatively associated with said housing, said slide actuator moving a slide from the input slide tray to the scan slide tray; and

10 a control system operatively associated with said slide actuator and operatively associated with a document scanner, said control system operating the document scanner to scan a slide positioned in the scan slide tray and operating said slide actuator to move a new slide from the input slide tray to the scan slide tray after the slide positioned in the scan slide tray has been scanned.

2. The automatic slide feeder of claim 1, further comprising a mirror mounted to said housing, said mirror being positioned to reflect through the slide positioned in the scan tray scanning light produced by a light source associated with the document scanner.

3. The automatic slide feeder of claim 2, wherein said mirror comprises a first mirror portion and a second mirror portion, said first mirror portion reflecting to said second mirror portion light produced by the light source associated with the document scanner, said second mirror reflecting light from said first mirror through the slide positioned in the scan slide tray.

4. An automatic slide feeder, comprising:

housing means for defining an input slide tray,

an output slide tray and a scan slide tray;

5 slide actuator means operatively associated with
said housing means for moving a slide from the input
slide tray to the scan slide tray; and

10 control system means operatively associated with
said slide actuator means and operatively associated
with a document scanner for operating the document
scanner to scan a slide positioned in the scan slide
tray and for operating said slide actuator to move a
new slide from the input slide tray to the scan slide
tray after the slide positioned in the scan slide
tray has been scanned.

5 5. The automatic slide feeder of claim 4, further
comprising mirror means mounted to said housing means
for reflecting through a slide positioned in the
slide tray scanning light produced by a light source
associated with the document scanner.

6. An automatic slide feeder, comprising:

a housing defining a base having a window
therein, an input slide tray, an output slide tray
and a scan slide tray, the scan slide tray being
aligned with the window in the base so that a
transparent image area on a slide positioned in the
scan slide tray is visible through the window;

a slide actuator operatively associated with
said housing, said slide actuator moving a slide from
the input slide tray to the scan slide tray; and

a control system operatively associated with
said slide actuator and operatively associated with
a document scanner, said control system operating the
document scanner to scan a slide positioned in the
scan slide tray and operating said slide actuator to

move a new slide from the input slide tray to the scan slide tray after the slide positioned in the scan slide tray has been scanned.

7. The automatic slide feeder of claim 6, wherein the base defined by said housing extends between the input slide tray and the output slide tray.

8. The automatic slide feeder of claim 7, further comprising a slide ramp positioned on the base of said housing in the output slide tray, said slide ramp elevating an end of the slide positioned in the output slide tray, the elevated end of the slide being located adjacent the scan slide tray, the elevated end of the slide allowing a slide positioned in the scan tray to be moved into position underneath the slide positioned in the output slide tray.

9. The automatic slide feeder of claim 7, further comprising a first bulkhead positioned between the input scan tray and the scan slide tray, the first bulkhead and the base defining a first gap therebetween, the first gap being sufficient to allow a single slide to pass between the input scan tray and the scan slide tray.

10. The automatic slide feeder of claim 9, further comprising a second bulkhead positioned between the scan slide tray and the output slide tray, the second bulkhead and the base defining a second gap therebetween, the second gap being sufficient to allow a single slide to pass between the scan slide tray and the output slide tray.